DIGITAL ANTENNA

# 2009 CATALOG

GO FURTHER

## COMMUNICATION PRODUCTS FOR LAND AND SEA

CELLULAR AMPLIFIERS | LAND BASED ANTENNAS | MARINE ANTENNAS | CABLES & CONNECTORS

# 2009 CATALOG

GO FURTHER

**GO FURTHER** on land and sea with Digital Antenna's award-winning antennas and cellular communication products. Made in the USA, designed by a dedicated team of engineers and supported by qualified sales professionals and retail partners, Digital Antenna is passionate about manufacturing high-performance products and delivering superior customer service.

## DEDICATION TO RESEARCH

**DIGITAL ANTENNA** *continues to bring you the latest technology – FIRST!*

Digital Antenna maintains an exceptionally strong discipline to research, resulting in innovative products that surpass the boundaries of tomorrow's technology. We're proud to have many "firsts" in our history. The first dual band cellular amplifier. The first dual band wireless cellular amplifier/repeater. The first easy installation mini-connector system. The first antenna with a power directing ferrite choke bead. The first global band cellular Omni-Directional antenna.

## NUMBER ONE NAME ANTENNAS

*Your antenna is your lifeline. Choose wisely.*

Our innovative approach to creating exceptional new technology has made Digital Antenna the #1 name in marine antennas. This attention to detail is evident in every aspect of our product development from engineering and manufacturing to requiring each antenna to be hand-tested and tuned before it leaves our facility. With a range of antennas designed for use on land or sea, Digital Antenna is the clear choice for maximum durability and performance.

## EXPERT CELLULAR AMPLIFICATION

**PowerMax™ –**
*Award-Winning Cellular Signal Boosters*

Digital Antenna is the only award-winning manufacturer FCC approved for 3 watts at 850 MHz and 2 watts at 1900 MHz for all modulations. Our cellular amplifiers and repeaters are the recipients of several prestigious industry awards including: NMEA Top Marine Specialty Product, CES Innovations Design and Engineering Award, NMMA Innovation Award and Editor's Choice Award from SAIL Magazine.

DIGITAL ANTENNA

*unequaled performance you can count on.*

Visit us at: **www.digitalantenna.com**

Made in the USA

# 2009 PRODUCT LINE

Visit us at
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DIGITAL ANTENNA

## GO FURTHER ON LAND AND SEA

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- *Printable 2009 catalog available at* **www.digitalantenna.com**

# GO FURTHER WITH YOUR CELL PHONE

DIGITAL ANTENNA

## PowerMax™ CELLULAR SIGNAL BOOSTERS

### WHICH CELL BOOSTER IS RIGHT FOR YOU?

First, determine where you will use the cell booster (home, office, car, boat, RV). Second, decide if your primary goal is to amplify voice, data or both. If maximum signal or data is your primary goal, choose the DA4000 direct-connect amplifier. If your primary goal is to enhance multiple cell phone signals simultaneously without a physical connection to the cell phone, use a wireless cell booster (repeater). Installation of wireless boosters require that you adhere to the distance and structure requirements between the inside and outside antennas (Antenna Separation). Additionally, wireless repeaters must have a usable cell signal at the location of the external (outside) antenna.*

*See chart below to select the correct amplifier or repeater.*
** See product pages for required structure between antennas.*

**Should I use a direct connect amplifier or a repeater? What is the difference?**
Both amplifiers (direct-connect cellular boosters) and repeaters (wireless cellular boosters) amplify cell phone signals up to 3 watts and will deliver similar benefits. A direct-connect amplifier will provide increased range (up to 50+ miles) from a cell tower. A wireless repeater will extend the range of your cell phone up to 30 + miles from a cell tower.

**Do you have an existing cellular signal to boost?**
When using a wireless repeater, an existing cellular signal strength of -70 to -90dBm (calls are easily completed) must exist at the location of the outside antenna. A direct connect amplifier is recommended for use in areas where there is extremely low outside cellular signal (-90 to -100dBm) or to enhance data and Internet connections. Optional directional and high gain antennas will add increased performance to your amplifier or repeater in low signal areas (see page 14).

**How does a direct-connect amplifier work?**
A direct connect amplifier is the best solution in areas of extremely low outside cellular signal or when optimal data connections are your top priority. Your cell phone is physically connected to the amplifier by an adapter cable. The amplifier then connects to an outside cell antenna Multiple cell phones can be used with a combiner. External antenna and adapter cables sold separately.

**How does a wireless repeater work?**
The major advantage of a wireless repeater is that no physical connection is required to your cell phone; however, a stronger outside cell signal (-70 to -90dBm) is necessary and specific installation guidelines for outside and inside antennas must be followed. The outside antenna receives the signal from the cell tower; the signal is amplified by the repeater unit and repeated to your cell phone through the inside antenna. This technology also allows the use of multiple cell phones and carriers simultaneously. Wireless repeaters are sold as complete systems.

| MODEL NUMBER | GAIN | COVERAGE (area) | NUMBER (of users) | ANTENNA SEPARATION* | WIRELESS | M2M | COMM. BLDG. | RETAIL STORE | HOME | OFFICE | DORM ROOM | CONDO | APARTMENT | YACHTS > 40' | CABIN CRUISERS <40' | SAILBOATS | RVs > 40' | RVs < 40' | AUTOMOBILES | CONVERTIBLES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **4KPR-15R** | 50dB | Up to 2,500 SF | Up to 20 | 10′ | Yes | | | | ● | ● | ● | ● | ● | | | | | | | |
| **4KMR-30M** | 50dB | Up to 3,500 SF | Up to 20 | 12′ | Yes | | | | | | | | | ● | ● | ● | ● | | | |
| **4KSBR-50M** | 70dB | Up to 4,000 SF | Up to 20 | 25′ | Yes | | | | | | | | ● | | ● | ● | ● | | | |
| **4KSBR-50U** | 60dB | Up to 5,000 SF | Up to 20 | 40′ | Yes | | | | ● | ● | | | ● | | ● | ● | | | | |
| **4KMR-30U** | 40dB | Up to 1,500 SF | Up to 20 | 20′ | Yes | | | | ● | ● | | | ● | | ● | ● | | | | |
| **4KMR-10A** | 40dB | Standard Car Interior | Up to 20 | 3′ | Yes | | | | | | | | | | | | | | ● | |
| **DA4000/DA4000E** | | Equipment Specific | Up to 4 *(With Combiner)* | N/A | No | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

# PowerMax™ 40dB AND 60dB REPEATERS

Visit us at
www.digitalantenna.com

## A LA CARTE REPEATERS

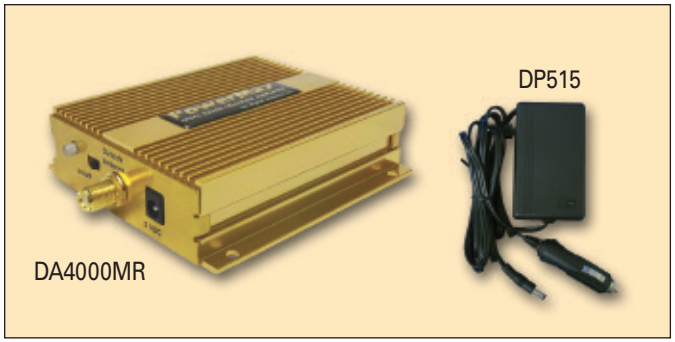
**VEHICLES | BOATS | RVs | CARS | HOMES | OFFICES**

FEATURING 3 WATT VARIABLE GAIN

Digital Antenna's 3 watt Dual Band Cellular and PCS repeaters are now available as single units to customize your installation (cabling, inside and outside antennas required and sold separately). These wireless repeaters available in 40 or 60dB models boost the signal strength of your cell phones or air cards up to 3 watts, improve transmit and receive signals and can be customized to use in a variety of locations. No connection to your cell phone is required allowing multiple cell phones and carriers to be used simultaneously.

DUAL BAND: FCC and IC approved for use with all North American cell phones operating on 850 or 1900 MHz
(except Nextel or IDEN).

| | |
|---|---|
| **Application DA4000MR:** | One room in Home, Office, RV, Automobile or Boat with Cabin. (not for use in open console boats or convertible vehicles). |
| **Application DA4000SBR:** | Multiple rooms in Home, Office, RV, Sailboat or Large Yacht. |
| **Range/ Performance:** | Enhanced area based upon cable, antenna style and gain*. |
| **Advantage:** | Wirelessly amplifies up to 20 cell phones. |
| **Requirement:** | A complete structure is always required between inside and outside antennas. In addition to structure, 60dB repeater requires 25' - 40' antenna separation and 40dB repeater requires 5' - 20' antenna separation dependent upon application and antenna selection. |




NEW

**DA4000MR Includes:**
*3 watt, 40dB gain cellular and PCS repeater*
*12 VDC power converter (DP515)*

NEW

**DA4000SBR Includes:**
*3 watt, 60dB gain cellular and PCS repeater*
*110 VAC power supply (DP255)*

** Range/Performance varies based upon outside cellular signal strength. A weaker outside signal results in a smaller inside coverage area. For maximum inside coverage area, use interior and exterior directional antennas and premium PowerMax™ cable (see page 21).*

**Specifications** DA4000MR | DA4000SBR

| | |
|---|---|
| **Frequency** | Downlink: 869-895 MHz and 1930-1990 MHz<br>Uplink: 824-849 MHz and 1850-1910 MHz |
| **Modulations** | All voice and data |
| **Max Output Power** | 3W (low bands), 2W (high bands) |
| **Dynamic Variable Gain** | DA4000SBR 53dB Max \| DA4000MR 43dB Max |
| **Receive Sensitivity** | -125dBm |

See website for complete product information including electrical specifications and installation instructions. www.digitalantenna.com

# PowerMax™ DIRECT CONNECT AMPLIFIERS (ALL PURPOSE)

DIGITAL ANTENNA

## DUAL BAND AMPLIFIERS

VEHICLES | BOATS | RVs | CARS | HOMES | OFFICES | M2M

FEATURING 3 WATT VARIABLE GAIN

DA4000

### DA4000 - Direct Connect Amplifier

*DUAL BAND: use with all North American cell phones operating on 850 or 1900 MHz (except Nextel or iDEN).*

Add increased power and reliability to your cell phone in any application with the PowerMax™ 3 watt cellular amplifier. A direct connect amplifier is the best solution in areas of extremely low outside cellular signal or when optimum data connections are top priority. Cell phone or air card physically attaches to DA4000 amplifier via an adapter cable (see pg 13). External antenna and adapter cable sold separately. Maximum input power: 2 watts.

DUAL BAND: FCC and IC approved for use with all North American cell phones operating on 850 or 1900 MHz (except Nextel or IDEN).

### DA4000E - Direct Connect Amplifier

*DUAL BAND: use with all European and Asian cell phones operating on 900 and 1800 MHz*

DA4000E

### Direct Connect Amplifiers Include:

- *3 watt dual band amplifier (DA4000 or DA4000E)*
- *12 VDC cigarette-style power cable (DP742)*
- *2' cable with mini-UHF male connectors (240-02MM)*

*External antenna and adapter cable required and sold separately*

**Universal Application:** Vehicles, boats, RVs, cars, homes, offices.

**Range/Performance:** Amplifies Cellular signal up to 50+ miles*.

**Solution:** Designed for areas of extremely low outside cellular signal and when optimum data connections are top priority.

**Advantage:** Universal use; cell phone or air card physically connects to amplifier via an adapter cable or universal cell phone cradle (see page 13-14).

BEST SPECIALTY PRODUCT

**Increased range varies based upon height of outside antenna, type of cable used, cell phone carrier, and location of cell tower. For maximum range, place outside antenna as high as possible using ultra low-loss cable.*

### Specifications

| | |
|---|---|
| **Frequency DA4000** | Downlink: 869-895 MHz and 1930-1990 MHz<br>Uplink: 824-849 MHz and 1850-1910 MHz |
| **Frequency DA4000E** | Downlink: 925-960 MHz and 1805-1880 MHz<br>Uplink: 880-915 MHz and 1710-1785 MHz |
| **Modulations** | All voice and data |
| **Max Output Power** | 3W (low bands), 2W (high bands) |
| **Dynamic Variable Gain** | 15dB Max |
| **Receive Sensitivity** | -125dBm |

For complete specifications visit www.digitalantenna.com

# PowerMax™ 40dB REPEATER (VEHICLE INTERIOR)



## MOBILE REPEATER SYSTEM

**CARS | SUVs | VANS | TRUCKS**

FEATURING 3 WATT VARIABLE GAIN

Experience greater cell phone power, range and reliability in your vehicle with Digital Antenna's award-winning PowerMax™ automobile wireless cell booster. The PowerMax™ 4KMR-10A boosts your cell phone and air card's signal strength to 3 watts and increases range up to 20+ miles without a physical connection to your cell phone. The result is clean and clear voice quality with maximum data throughput on all carriers except Nextel or iDEN.

DUAL BAND: FCC and IC approved for use with all North American cell phones operating on 850 or 1900 MHz (except Nextel or IDEN).

### 4KMR-10A System Includes:

- *3 watt, 40dB gain cellular and PCS repeater (DA4000MR)*
- *12 VDC power converter (DP515)*
- *Internal slim patch antenna with 6' cable (CA09P)*
- *External 3dB gain magnetic mount antenna with 10' cable (CA55M)*

INNOVATIONS INTERNATIONAL CES DESIGN & ENGINEERING SHOWCASE HONORS 2005

**Mobile Application:** Vehicles with metal roofs (not for use in convertibles or in vehicles with composite roofs).

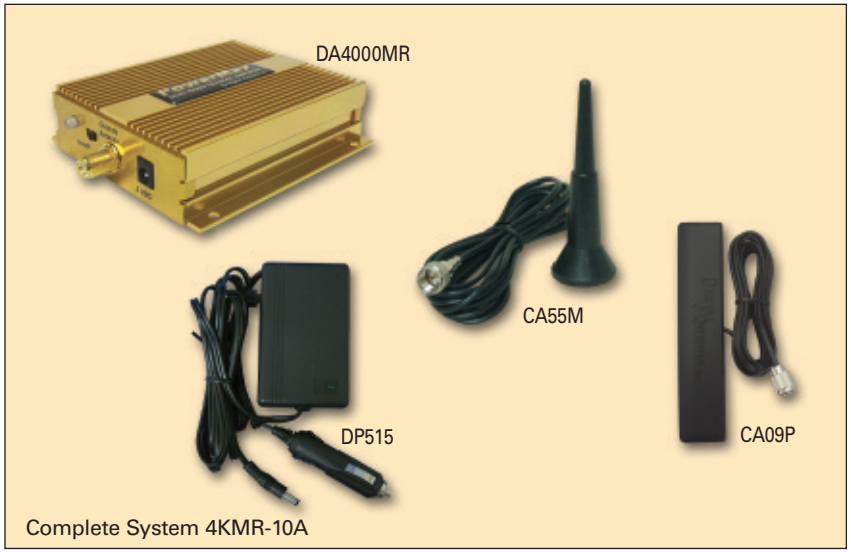
**Range/Performance:** Amplifies cellular signals up to 20+ miles.

**Advantage:** Wirelessly enhances signals of multiple cell phones within a standard vehicle interior*.

**Requirement:** 3' separation and a metal roof between inside & outside antennas (not for use in a convertible or composite roof).

### DC074 Cell Booster Travel Bag (sold separately)

Convenient travel bag neatly stores cell booster, antennas, and power supply (sold separately) in multi-accessible zipper compartments. Features mesh pockets for venting. Includes carrying handle and shoulder strap.




Complete System 4KMR-10A

** Enhanced coverage area from inside antenna varies based upon outside cell signal strength. A weaker outside signal results in a smaller distance from inside antenna.*

### Specifications 4KMR-10A

| | |
|---|---|
| **Frequency** | Downlink: 869-895 MHz and 1930-1990 MHz<br>Uplink: 824-849 MHz and 1850-1910 MHz |
| **Modulations** | All voice and data |
| **Max Output Power** | 3W (low bands), 2W (high bands) |
| **Dynamic Variable Gain** | 43dB Max |
| **Receive Sensitivity** | -125dBm |

See website for complete product information including electrical specifications and installation instructions. www.digitalantenna.com

# PowerMax™ 40dB GAIN REPEATER (UP TO 1,500 SF)

DIGITAL ANTENNA

## SINGLE ROOM REPEATER SYSTEM

1 ROOM IN A HOME | OFFICE

FEATURING 3 WATT VARIABLE GAIN

Digital Antenna's PowerMax™ SOHO room wireless cellular booster provides enhanced cellular signals in a room up to 1,500 square feet in size. Perfect for use inside homes and offices where cell phone service is poor or non-existent, the 4KMR-30U repeater system brings the outside cellular signal indoors.

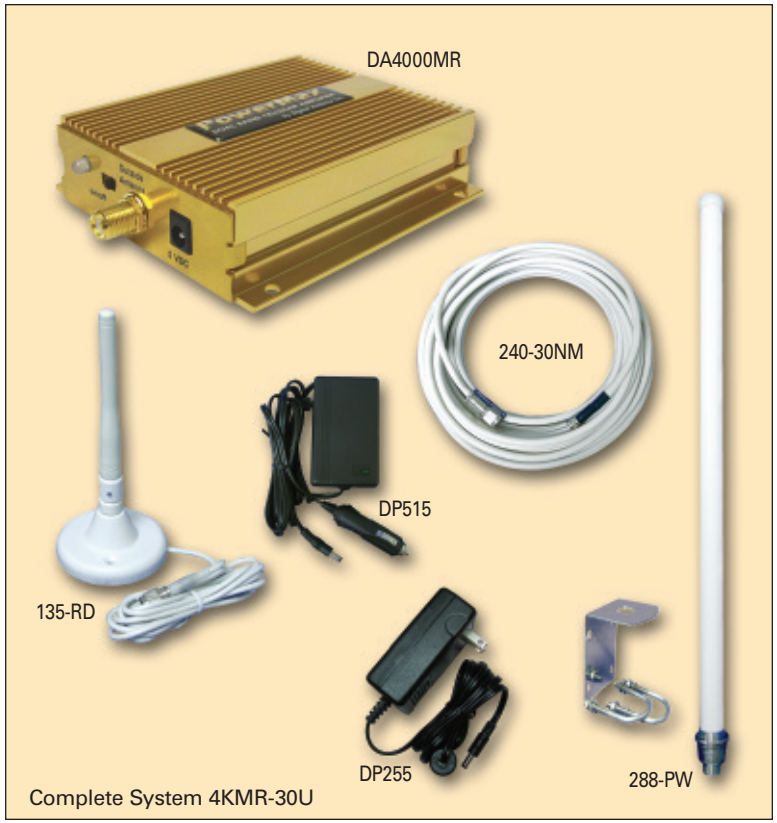
DUAL BAND: FCC and IC approved for use with all North American cell phones operating on 850 or 1900 MHz (except Nextel or IDEN).

**4KMR-30U 40dB Gain System**

| | |
|---|---|
| **Application:** | One room in a home or office (up to 1,500 square feet). |
| **Range/Performance:** | Enhances multiple cell phones in a room up to 8' to 12' from inside antenna*. |
| **Advantage:** | Wirelessly amplifies up to 20 cell phones in one room. |
| **Requirement:** | 20' separation plus a complete structure between inside and outside antennas. |

** Range/Performance varies based upon outside cellular signal strength. A weaker outside signal results in a smaller inside coverage area. To increase inside coverage area, add an internal or external directional antenna (see page 16).*

SAIL MAGAZINE 2005 PITTMAN EDITORS' CHOICE



Complete System 4KMR-30U

### Specifications 4KMR-30U

| | |
|---|---|
| **Frequency** | Downlink: 869-895 MHz and 1930-1990 MHz<br>Uplink: 824-849 MHz and 1850-1910 MHz |
| **Modulations** | All voice and data |
| **Max Output Power** | 3W (low bands), 2W (high bands) |
| **Dynamic Variable Gain (Max)** | 43dB |
| **Receive Sensitivity** | -125dBm |

See website for complete product information including electrical specifications and installation instructions. www.digitalantenna.com

### 4KMR-30U System Includes:

- *3 watt dual band 40dB gain cellular and PCS repeater (DA4000MR)*
- *18" external 9dB gain omni-directional antenna (288-PW)*
- *Internal antenna with 6' cable (135-RD)*
- *30' of DA240 cable for external antenna (240-30NM)*
- *12 VDC power converter (DP515)*
- *110 VAC power supply (DP255)*

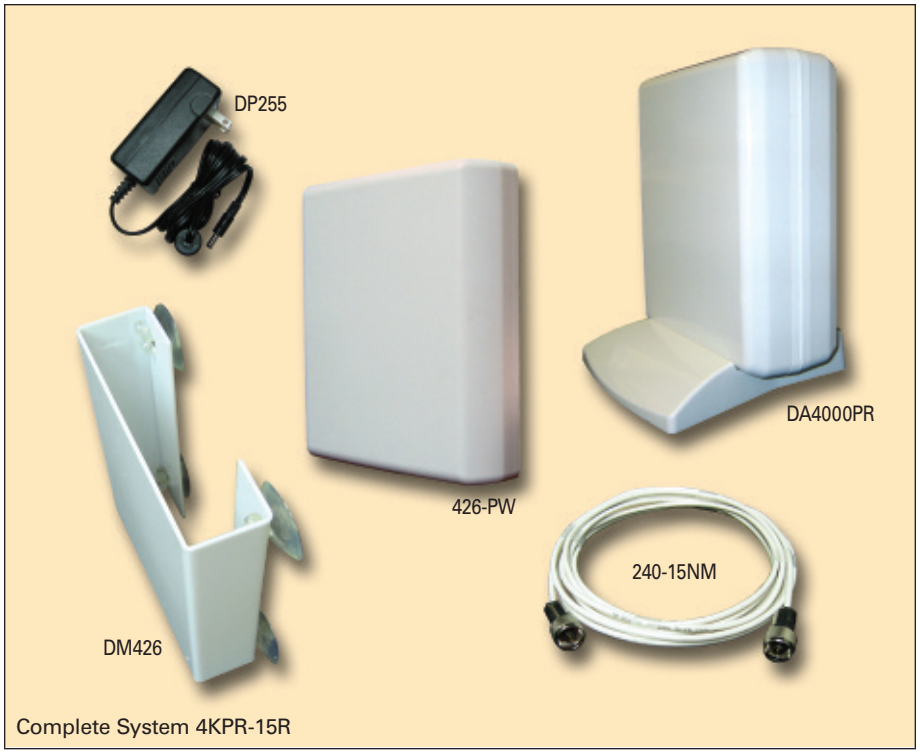
# PowerMax™ 50dB GAIN REPEATER (UP TO 2,500 SF)

Visit us at www.digitalantenna.com

## PERSONAL REPEATER SYSTEM

**CONDOS | APARTMENTS | DORM ROOMS | HOMES | OFFICES**

FEATURING 3 WATT VARIABLE GAIN



Complete System 4KPR-15R

A compact and simple solution to poor cellular reception inside condominiums, apartments, dorm rooms, homes, and offices, the PowerMax™ 4KPR-15R Wireless Personal Repeater provides reliable and clear cell phone communication equivalent to the cell signal strength available outside the building. A simple Do-It-Yourself (with no tools required) installation. Suction cups allow a 9dB gain antenna to securely attach to a window while the 50dB gain repeater sits on any flat surface like a desk or bookcase.

DUAL BAND: FCC and IC approved for use with all North American cell phones operating on 850 or 1900 MHz (except Nextel or IDEN).

### 4KPR-15R System Includes:

- *3 watt, 50dB gain cellular and PCS repeater with built-in 9dB antenna (DA4000PR)*
- *110 VAC power supply (DP255)*
- *Window mounted 9dB gain antenna (426-PW)*
- *Window-mount for 426-PW antenna (DM426)*
- *15' coaxial cable with attached connectors (240-15NM)*

**In-Building Application:** Condominiums, apartments, homes, offices, dorm rooms.

**Range/Performance:** Wirelessly enhances signals of multiple cell phones in a room (up to 2,500 square feet)*.

**Advantage:** Simple Do-It-Yourself installation does not require outside installation.

**Requirement:** 10' separation between window antenna and repeater unit.

** Range/Performance varies based upon outside cellular signal strength. A weaker outside signal results in a smaller inside coverage area. To increase coverage area, place window mount antenna outside the building.*

### Specifications 4KPR-15R

| | |
|---|---|
| **Frequency** | Downlink: 869-895 MHz and 1930-1990 MHz<br>Uplink: 824-849 MHz and 1850-1910 MHz |
| **Modulations** | All voice and data |
| **Max Output Power** | 3W (low bands), 2W (high bands) |
| **Dynamic Variable Gain** | 50dB Max |
| **Receive Sensitivity** | -125dBm |

See website for complete product information including electrical specifications and installation instructions. www.digitalantenna.com

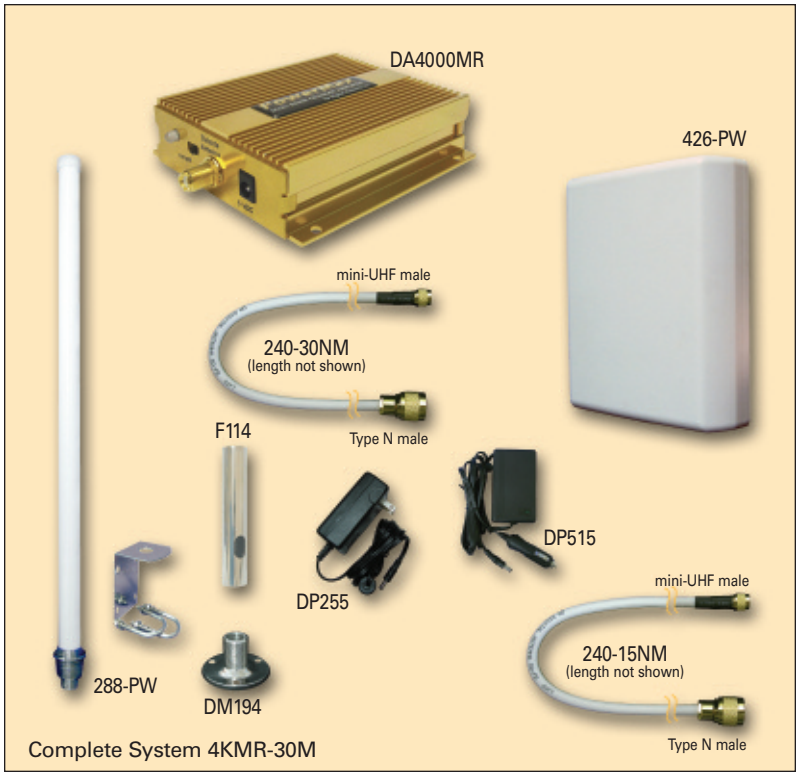
# PowerMax™ 50dB GAIN REPEATER (UP TO 3,500 SF)

DIGITAL ANTENNA

## SINGLE ROOM REPEATER SYSTEM

HOME | OFFICE | BOAT WITH CABIN | RV

FEATURING 3 WATT VARIABLE GAIN



Complete System 4KMR-30M

Get more bars with Digital Antenna's PowerMax™ 4KMR-30M wireless cell booster with directional inside antenna. This new 50dB gain wireless cellular and PCS repeater system boosts the signal strength of your cell phones or air cards to 3 watts, improves transmit and receive signals and can be used in a variety of locations. Not for use in open console boats.

DUAL BAND: FCC and IC approved for use with all North American cell phones operating on 850 or 1900 MHz (except Nextel or IDEN).

**4KMR-30M 50dB Gain System**

| | |
|---|---|
| **Application:** | One to two rooms in Home, Office, RV or Boat with Cabin. (not for use in open console boats). |
| **Range/Performance:** | Enhances multiple cell phones up to 25' from inside antenna*. |
| **Advantage:** | Wirelessly amplifies up to 20 cell phones in one to two rooms. |
| **Requirement:** | 12' separation plus a complete structure between inside and outside antennas. |

** Range/Performance varies based upon outside cellular signal strength. A weaker outside signal results in a smaller inside coverage area. To increase inside coverage area, add an external directional antenna for fixed locations only (see page 16).*

## Specifications 4KMR-30M

| | |
|---|---|
| **Frequency** | Downlink: 869-895 MHz and 1930-1990 MHz<br>Uplink: 824-849 MHz and 1850-1910 MHz |
| **Modulations** | All voice and data |
| **Max Output Power** | 3W (low bands), 2W (high bands) |
| **Dynamic Variable Gain (Max)** | 53dB |
| **Receive Sensitivity** | -125dBm |

See website for complete product information including electrical specifications and installation instructions. www.digitalantenna.com

## 4KMR-30M System Includes:

- *3 watt dual band 40dB gain cellular and PCS repeater (DA4000MR)*
- *18" external 9dB gain omni-directional antenna (288-PW)*
- *Internal 9dB gain directional antenna (426-PW)*
- *30' of DA240 cable for external antenna (240-30NM)*
- *15' of DA240 cable for internal antenna (240-15NM)*
- *1"–14 threaded mount (DM194)*
- *1"–14 threaded mounting ferrule (F114)*
- *12 VDC power converter (DP515)*
- *110 VAC power supply (DP255)*

# PowerMax™ 70dB GAIN REPEATER (UP TO 4,000 SF)



## MULTIPLE ROOM REPEATER SYSTEM

**HOME | OFFICE | LARGE YACHT | SAILBOAT | RV**

FEATURING 3 WATT VARIABLE GAIN

Get more bars with the most powerful repeater system on the market. Digital Antenna's PowerMax™ 4KSBR-50M 70dB gain wireless repeater system boosts the signal strength of your cell phones or air cards to 3 watts, greatly improves transmit and receive signals and can be used in a variety of locations. This translates into fewer dropped calls, clearer connections and stronger signals inside your home, office, yacht, sailboat or RV. Not for use in open console boats.

DUAL BAND: FCC and IC approved for use with all North American cell phones operating on 850 or 1900 MHz (except Nextel or IDEN).

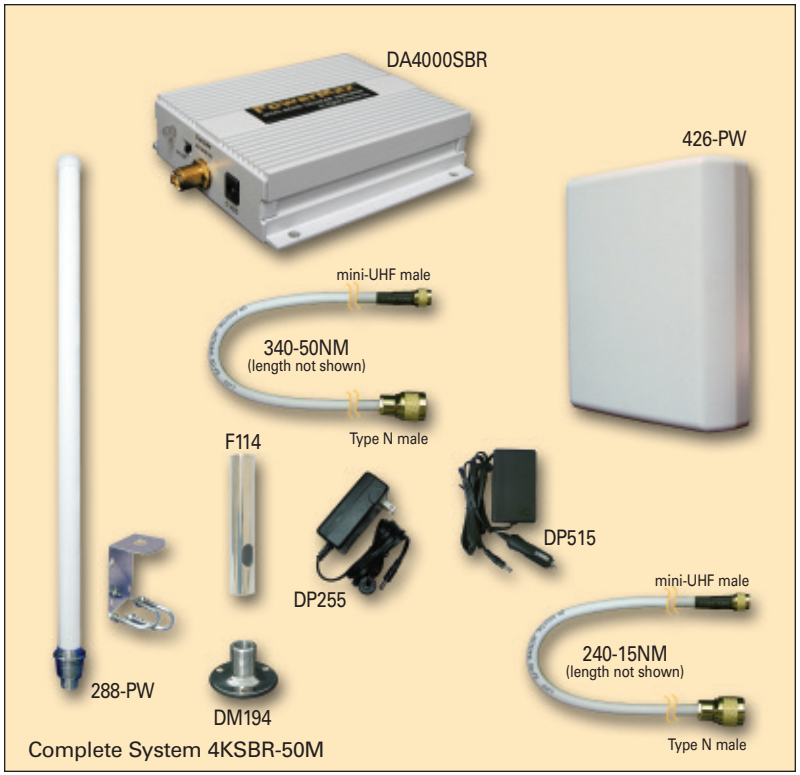
**4KSBR-50M 70dB Gain System**

| | |
|---|---|
| **Application:** | Multiple rooms in Home, Office, RV, Large Yacht or Sailboat. (not for use in open console boats). |
| **Range/Performance:** | Enhances multiple cell phones up to 60' from inside antenna*. |
| **Advantage:** | Wirelessly amplifies up to 20 cell phones in multiple rooms. |
| **Requirement:** | 25' separation plus a complete structure between inside and outside antennas. |

** Range/Performance varies based upon outside cellular signal strength. A weaker outside signal results in a smaller inside coverage area. To increase inside coverage area, add an external directional antenna for fixed locations only (see page 16).*

### 4KSBR-50M System Includes:

- *3 watt dual band 70dB gain cellular and PCS repeater (DA4000SBR)*
- *18" external 9dB gain omni-directional antenna (288-PW)*
- *Internal 9dB gain directional antenna (426-PW)*
- *50' of DA340 cable for external antenna (340-50NM)*
- *15' of DA240 cable for internal antenna (240-15NM)*
- *1"–14 threaded mount (DM194)*
- *1"–14 threaded mounting ferrule (F114)*
- *12 VDC power converter (DP515)*
- *110 VAC power supply (DP255)*



Complete System 4KSBR-50M

## Specifications 4KSBR-50M

| | |
|---|---|
| **Frequency** | Downlink: 869-895 MHz and 1930-1990 MHz<br>Uplink: 824-849 MHz and 1850-1910 MHz |
| **Modulations** | All voice and data |
| **Max Output Power** | 3W (low bands), 2W (high bands) |
| **Dynamic Variable Gain (Max)** | 73dB |
| **Receive Sensitivity** | -125dBm |

See website for complete product information including electrical specifications and installation instructions. www.digitalantenna.com

# PowerMax™ 60dB GAIN REPEATER (UP TO 5,000 SF)

DIGITAL ANTENNA

## MULTIPLE ROOM REPEATER SYSTEM

HOMES | OFFICES | LARGE BOATS | SAILBOATS | RVs >40'

FEATURING 3 WATT VARIABLE GAIN

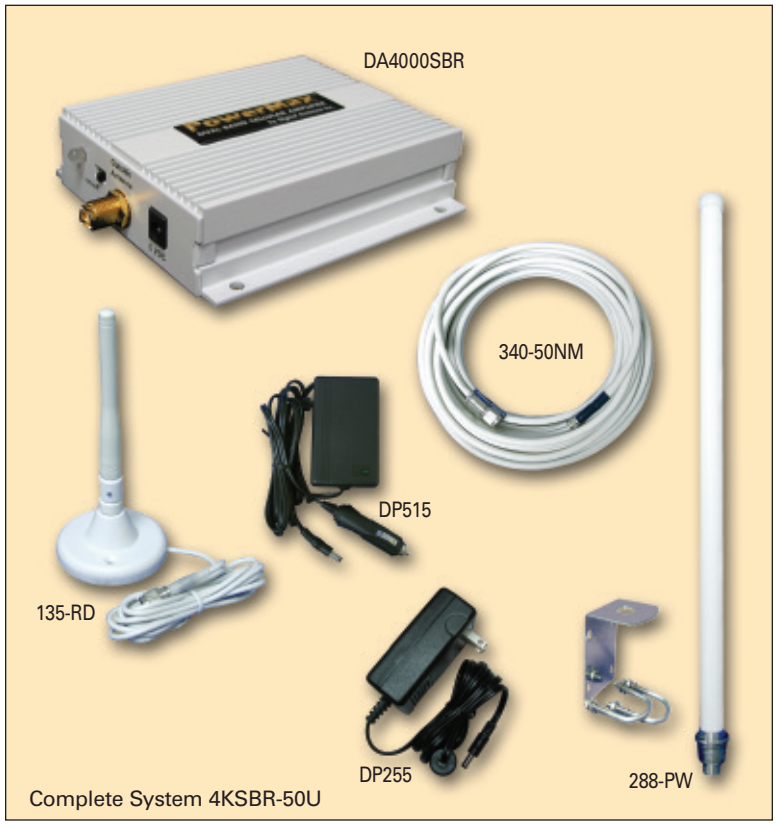
Increase cell signals indoors with Digital Antenna's popular PowerMax™ Small Building Repeater. The complete 4KSBR-50U system is a professional grade wireless cellular booster that provides a generous coverage area of up to 5,000 square feet. Perfect for use inside where cell phone service is poor or non-existent, the 4KSBR-50U repeater system brings the outside cellular signal indoors.

DUAL BAND: FCC and IC approved for use with all North American cell phones operating on 850 or 1900 MHz (except Nextel or IDEN).

**4KSBR-50U 60dB Gain System**

| | |
|---|---|
| **Application:** | Multiple rooms in a home, office, RV, large yacht or sailboat (up to 5,000 square feet). |
| **Range/Performance:** | Enhances multiple cell phones 15' to 50' from inside antenna*. |
| **Advantage:** | Wirelessly amplifies up to 20 cell phones in multiple rooms. |
| **Requirement:** | 40' separation plus a structure between inside and outside antennas. |

** Range/Performance varies based upon outside cellular signal strength. A weaker outside signal results in a smaller inside coverage area. To increase inside coverage area, add an internal or external directional antenna (see page 16).*



Complete System 4KSBR-50U

## Specifications 4KSBR-50U

| | |
|---|---|
| **Frequency** | Downlink: 869-895 MHz and 1930-1990 MHz<br>Uplink: 824-849 MHz and 1850-1910 MHz |
| **Modulations** | All voice and data |
| **Max Output Power** | 3W (low bands), 2W (high bands) |
| **Dynamic Variable Gain (Max)** | 63dB |
| **Receive Sensitivity** | -125dBm |

See website for complete product information including electrical specifications and installation instructions. www.digitalantenna.com

## 4KSBR-50U System Includes:

- *3 watt dual band 60dB gain cellular and PCS repeater (DA4000SBR)*
- *18" external 9dB gain omni-directional antenna (288-PW)*
- *Internal antenna with 6' cable (135-RD)*
- *50' of DA340 cable for external antenna (340-50NM)*
- *12 VDC power converter (DP515)*
- *110 VAC power supply (DP255)*

# PowerMax™ CELLULAR COMBINERS



## 2-WAY | 4-WAY GLOBAL BAND CELLULAR COMBINERS

**USE WITH ALL PowerMax™ CELLULAR BOOSTERS**

### 2-Way Global Cell Combiner

DA-2190

### 4-Way Global Cell Combiner

DA-4190

Getting the most out of your cellular signal booster is easy when you have the right accessories to create a solution that is perfect for your specific application. Digital Antenna's 2-way and 4-way global band cellular combiners work on all cellular bands (850, 900, 1800, 1900 and 2100 MHz) and allow multiple cellular devices to be used simultaneously with direct-connect amplifiers and wireless repeater systems (cell boosters).

NEW

| Specifications | DA-2190 \| DA-4190 |
|---|---|
| Frequency | 850\|900\|1800\|1900\|2100 MHz |
| Band | 800-2200 MHz |
| Impedance | 50 ohm |
| Max Input Power | 3 watts |
| Connectors | Mini-UHF female |
| Insertion loss | 3dB (DA-2190) \| 6dB (DA-4190) |
| Dimensions | 4" length x 3.25" wide x 1.28" high |

NEW

### 2-Way Global Cell Combiner Kit

Digital Antenna's 2-way global cellular combiner works on all cellular bands (850, 900, 1800, 1900 and 2100 MHz) and allows up to two cell phones or other cellular devices to be used simultaneously with a direct-connect amplifier or wireless repeater system. For easy installation, the DA-2192 kit includes a 2-way combiner (DA-2190) and a pair of 12' dash-mount adapter cables (C428-12).

Two - 12' Dash-Mount Cables

DA-2192

*All global band cellular combiners feature mini-uhf female connectors. Cables sold separately.*

# PowerMax™ CELLULAR ADAPTER CABLES

DIGITAL ANTENNA

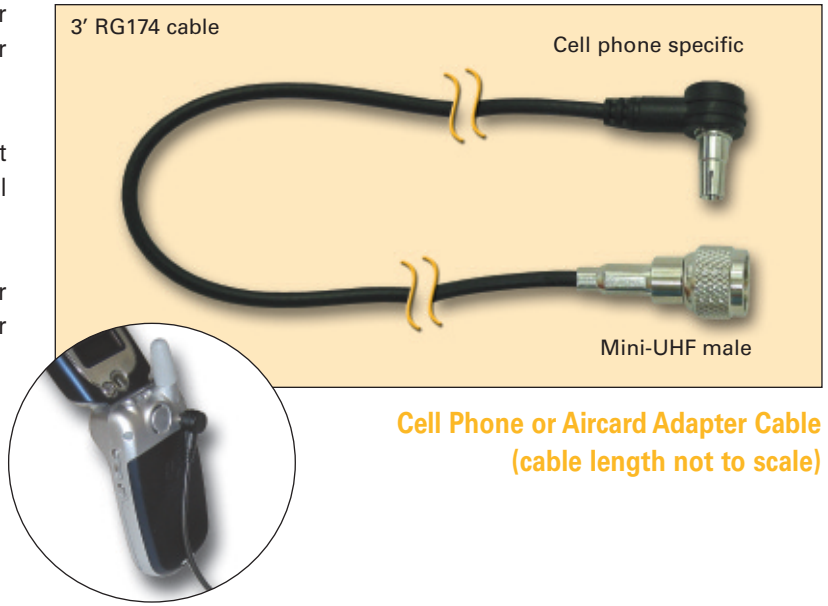
## 3' CABLE WITH MINI-UHF MALE CONNECTOR

**USE WITH DIRECT CONNECT AMPLIFIER, EXTERNAL ANTENNA, CELL COMBINER**

Digital Antenna's cellular adapter cables are a convenient 3' length. The attached mini-UHF male connector easily connects your cell phone or air card to a PowerMax™ DA4000 Amplifier, Multi-Cell Phone Combiner or Dash-Mount Cable.

Digital Antenna offers more than 100 external antenna adapters to fit over 500 phones. Please visit www.digitalantenna.com for an updated list of phone and aircard specific adapter cables. If your model number is not listed*, use Digital Antenna's new DA97U universal inductive coupler adapter.

*Your phone's model number should be located under your cell phone's battery. Match the model number to the list on our website to identify the adapter cable for your phone. We also have a variety of adapter cables for your PC aircard.




**Cell Phone or Aircard Adapter Cable (cable length not to scale)**

**If your cellular phone model number is not listed at www.digitalantenna.com, use Digital Antenna's new DA97U universal inductive coupler adapter.**

This innovative adapter allows any cell phone or aircard to be used with a PowerMax™ direct connect amplifier. For best performance, always use the cellular adapter cable made specifically for your phone or aircard if available.

**Available Manufacturers**

**We offer adapter cables for the following cellular manufacturers.**
**Visit www.digitalantenna.com for a complete listing of cell phone and aircard models.**

- *Audiovox (UT Starcom)*
- *Curitel*
- *Denso*
- *Handspring / Palm*
- *Hitachi*
- *HTC Faraday (manufactured for Cingular)*
- *Kyocera / Qualcomm*
- *LG / Lucky Goldstar*
- *Mitsubishi*
- *Motorola*
- *Nokia*
- *Novatel*
- *Panasonic*
- *Pantech*
- *Samsung*
- *Sanyo*
- *Sharp*
- *Siemens*
- *Sierra Aircard*
- *Sony Ericsson*
- *Uniden*
- *Verizon*

# PowerMax cellular accessories



## UNIVERSAL CELL PHONE CRADLE

**AUTOMOBILES | TRUCKS | BOATS**

Digital Antenna's new Universal Cell Cradle with built-in antenna makes amplifying your cell signal simple. The adjustable cradle holds any size cell phone including PDA phones. The built in antenna inductively couples to your cell phone's antenna. When used with Digital Antenna's 3 watt 40dB gain dual band repeater, model DA4000MR (sold separately) you will experience up to 10 times the signal strength. Use with Bluetooth products, hands free kits, ear-buds or speaker phone. Includes 3M adhesive back mounting bracket with screw mount option.

NEW

### Universal Cradle Features:

- *Compatible with all cell phones*
- *Built-in antenna*
- *Easy to use & flexible*
- *Includes mounting hardware*
- *Quick release button*
- *Adjustable holding feet*

Model DM547
Cell Phone not included.

### Gooseneck Power Outlet Cradle Accessory

New gooseneck cradle holder allows for a non-permanent installation of Digital Antenna's Universal Cell Phone Cradle Holder. The gooseneck and swivel head design allows the phone to be placed in countless positions. The holder simply plugs into any cigarette or auxillary outlet and features a female outlet allowing you to charge allowing you to charge the cell phone while in the cradle.

DM585

| Specifications | DM547 |
|---|---|
| **Frequency** | 800-2500 MHz |
| **Connector** | Mini-UHF male |
| **Cable** | 10' premium RG174 |
| **Dimensions** | Impedance 50 ohm |
| **Insertion loss** | 2dB |
| **Warranty** | 1 year (limited) |

See website for complete product information including electrical specifications and installation instructions. www.digitalantenna.com

# PowerMax™ Cellular Antennas

DIGITAL ANTENNA

## Dual Band and Multi-Band Omni-Directional

VEHICLES | BOATS | RVs | HOMES | OFFICES | M2M

Digital Antenna's PowerMax™ cellular antennas offer professional grade construction and range. A perfect compliment to Digital Antenna's amplifiers and repeater systems, PowerMax™ cellular antennas provide strong and reliable signals. When communication is critical, Digital Antenna's award-winning antennas make the connection.

### Model # 288-PW

**18" Dual Band Fiberglass Antenna**

- *Use: Outside Homes | Offices | Boats | RVs*
- *Frequencies: 820-900 | 1850-1990 MHz*
- *Bands: 850 | 1900 MHz*
- *Gain: 9dB*
- *Connector: Type N female*
- *Cable Length: Not Included (pg 27-28)*
- *Mount: L-bracket for 1" pole or wall*
- *Dimensions: 18" l x 1" OD max*

### Model # 295-PW

NEW

**18" Multi-Band Fiberglass Antenna**

- *Use: Outside Homes | Offices | Boats | RVs*
- *Frequencies: Global 850, 900, 1800, 1900, 2100 MHz*
- *Bands: 850 | 900 | 1800 | 1900 | 2100 MHz*
- *Gain: 9dB*
- *Connector: Type N female*
- *Cable Length: Not Included (pg 27-28)*
- *Mount: L-bracket for 1" pole or wall*
- *Dimensions: 18" l x 1" OD max*

### Model #135-RD

**Dual Band Inside Antenna**

- *Use: Inside Homes | Offices | Boats | RVs*
- *Frequencies: 820-900 |1850–1990 MHz*
- *Gain: 3dB*
- *Connector: Mini-UHF male*
- *Cable Length: 6'*
- *Mount: Swivel base*
- *Dimensions: 4" l x 2.5" OD max*

### Model # CA55M

**Dual Band Magnetic Mount Antenna**

- *Use: Outside Automobiles*
- *Frequencies: 820-900 |1850–1990 MHz*
- *Gain: 3dB*
- *Connector: Mini-UHF male*
- *Cable Length: 10'*
- *Mount: Strong magnetic base*
- *Dimensions: 3.5" l x .1.2" OD max*

### Model #CA09P

**Dual Band Slim Patch Antenna**

- *Use: Inside Automobiles | Convertibles*
- *Frequencies: 820-900 |1850–1990 MHz*
- *Gain: 3dB*
- *Connector: Mini-UHF male*
- *Cable Length: 6'*
- *Mount: 3M adhesive*
- *Dimensions: 5.5"l x 1.2"w x .25"h*

# PowerMax™ ANTENNAS



## DUAL BAND AND MULTI-BAND DIRECTIONAL

**HOMES | OFFICES | COMMERCIAL BUILDINGS | M2M**

When more power and range is needed, Digital Antenna offers a complete line of high gain directional antennas for cellular, PCS, WCDMA and WiFi frequencies. With a nearly perfect 50 ohm match, PowerMax™ antennas offer exceptional construction while delivering maximum range. Cable sold separately (see page 20-21).

### Model #433-CM

**Multi-Band Ceiling Mount Antenna**

- *Use: Inside Homes | Offices | Commercial Buildings*
- *Frequencies: 824-894 | 1850-1990 | 2400-2500 MHz*
- *Gain: 3dB*
- *Connector: Type N female*
- *Beam Width: H 360º V 60º*
- *Mount: Ceiling*
- *Dimensions: 6.8" OD x 3.6" h*

### Model #426-PW

**Multi-Band Panel Antenna**

- *Use: Inside or Outside Homes | Offices | Commercial Buildings | Boats | RVs*
- *Frequencies: 824-894 | 1850-1990 | 2400-2500 MHz*
- *Gain: 9dB*
- *Connector: Type N female*
- *Beam Width: H 65º V 55º*
- *Mount: Included wall bracket*
- *Dimensions: 7" w x 9" h x 1.75"d*

### Model #489-DB

**Multi-Band Directional Antenna**

- *Use: Outside Homes | Offices | Commercial Buildings*
- *Frequencies: 800-2500 MHz*
- *Gain: 10dB*
- *Connector: Type N female*
- *Beam Width: H 80º V 60º*
- *Mount: Integrated brackets for mast/pole*
- *Dimensions: 18" l x 8.5" h x 2.5" d*

### 14 Element High Gain Yagi Antenna

### Model #408-YB

**Low-Band Yagi Cellular Antenna**

- *Frequencies: 824-894 MHz*
- *Dimensions: 48" l x 7.25" h x 2" d*
- *Beam Width: H49º V49º*

### Model #419-YB

**High-Band Yagi Cellular Antenna**

- *Frequencies: 1850-1990 MHz*
- *Dimensions: 30" l x 4" h x 2" d*
- *Beam Width: H51º V31º*

- *Use: Outside Homes | Offices | Commercial Buildings*
- *Gain: 14dB*
- *Connector: Type N female*
- *Mount: Included U-bolts for pole*

# PowerMax™ RV ANTENNA PRODUCTS

DIGITAL ANTENNA

## THRU ROOF CELLULAR ANTENNA AND CABLE

RVs | FIFTH WHEELS | TRAVEL TRAILERS

#184-TR

NEW

Digital Antenna's new low profile RV Cellular and PCS Antennas offers exceptional range, excellent wind resistance and unsurpassed durability and strength. The antenna and ground plate simply attach to Digital Antenna's RV cable install kit or any Type N female bulkhead connector. For maximum cellular signal range, use with a Digital Antenna cell booster (sold separately). Digital Antenna's award-winning antennas and cell boosters allow you to stay connected to family, business and emergency while on the road.

| Specifications | 184-TR |
|---|---|
| Radiation Pattern | Omni-Directional |
| Bandwidth VSWR | < 2:1 = 810 - 900 and 1800 - 1990 MHz |
| Gain | 5dBi |
| Dimensions | Antenna 10″ L x .235″ OD<br>Ground Plane (Max) 6.75″ D |
| Weight | 6 oz |
| RF Connector | Type N male |
| Installation | Installs on Type N female bulkhead connector (sold separately) |

#C457-30

NEW

Digital Antenna's new pre-assembled RV cable install kit allows for easy cable installation. Connectors are factory attached to ensure greatest connectivity and reduced install time. Premium low-loss DA240 cable features a tinned braid and foil shield for maximum signal transmission.

| Specifications | C457-30 |
|---|---|
| Cable Type | 30′ DA240 |
| RF Connectors | Mini-UHF male and Type N female bulkhead |
| Attenuation (loss) | 2.6dB @ 800 MHz and 3.8 @ 1900 MHz |
| Installation | 3″ square mounting plate with stainless steel screws |

# PowerMax™ CAR AND TRUCK ANTENNAS



## THRU ROOF CELLULAR ANTENNAS

### 3dB | 6dB GAIN DUAL BAND OMNI-DIRECTIONAL

#179-TR

Digital Antenna's new 3dB gain cellular and PCS auto antenna provides exceptional performance in a compact design. The low profile thru-roof antenna offers excellent wind resistance with an extremely durable construction. The antenna simply attaches to the included 10' low loss cable. For maximum cellular signal range, use with a Digital Antenna cell booster (sold separately).

NEW

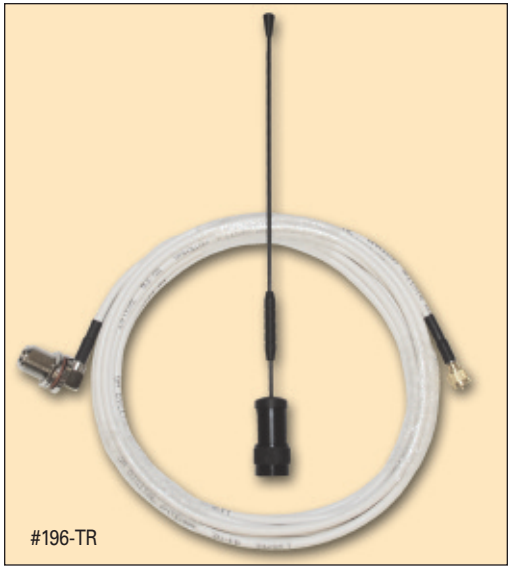
**Features:**

- *3dB gain*
- *Soldered connections*
- *Precision tuning*
- *Durable construction*
- *Includes 10' low loss cable*

**PowerMax™ Series: 179-TR**

**Mount:** Thru-Roof.
**Connector:** Highest quality mini-UHF male.
**Cable:** 10' low loss DA240.

| Specifications | 179-TR |
|---|---|
| Bandwidth VSWR | < 1.5:1 = 810 - 900 and 1800 - 1990 MHz |
| Gain | 3dBi |
| Impedance | 50 ohms |
| Dimensions | 4.25" Length x .235" OD (Max) |
| RF Connectors | Mini-UHF |
| Cable Type & Length | DA240 \| 10 feet |



#196-TR

Digital Antenna's new 6dB gain cellular and PCS truck antenna provides exceptional performance in a rugged, compact design. The low profile antenna rod offers excellent wind resistance while the high grade stainless steel components offer unsurpassed durability and strength. The antenna simply attaches to the included 15' low loss cable. For maximum cellular signal range, use with a Digital Antenna cell booster (sold separately).

NEW

**Features:**

- *5dB gain*
- *Powerful stainless steel radiators*
- *Soldered connections*
- *Precision tuning*
- *Durable powder coated finish*

**PowerMax™ Series: 196-TR**

**Mount:** Thru-Roof.
**Connector:** Highest quality Type N male.
**Cable:** 15' low loss DA240.

| Specifications | 196-TR |
|---|---|
| Bandwidth VSWR | < 1.5:1 = 810 - 900 and 1800 - 1990 MHz |
| Gain | 6dBi |
| Impedance | 50 ohms |
| Dimensions | 10" Length x .235" OD (Max) |
| RF Connectors | Type N |
| Cable Type & Length | DA240 \| 15 feet |

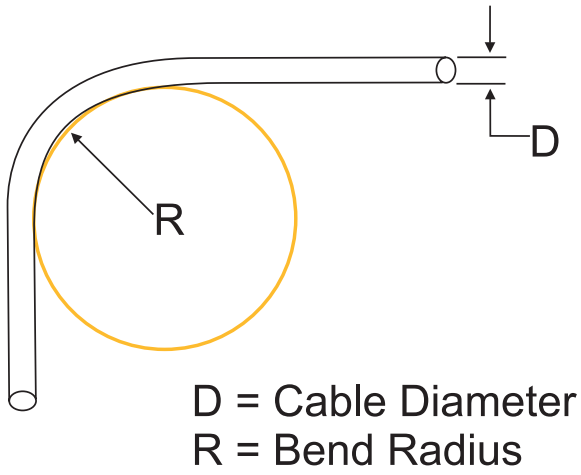
# GO FURTHER WITH PowerMax™ LOW-LOSS CABLES

DIGITAL ANTENNA

## CABLE & CONNECTOR SELECTION GUIDE

### FOR MAXIMUM SIGNAL TRANSMISSION

Cable plays one of the most important roles in the antenna installation. Signals are transmitted through the cable and the goal is to maintain as much of the signal as possible when it reaches the antenna. Digital Antenna cables feature exclusive low loss, tinned braid, foil shielded cable with a UV stable jacket for maximum signal transmission.




**Additional FAQs**
**on antennas and cables available at**
**www.digitalantenna.com**

***Cable and Connector Selection Guide:***

**How long is the cable run?**

Cable length must be calculated before determining the cable type. The cable run must not be kinked, crushed, or have a bend radius less than 10 times the cable diameter. Also the cable must be clear of moving objects. Cable should be laid as straight as possible and away from metal. Bends or sharp curves decrease performance and may cause drastic signal loss.

**What is return loss?**

Return loss is the portion of a signal that is lost due to a reflection of power caused by any discontinuity of the cable. Signal reflections are caused by anything that changes the shape of the cable. Cable kinks or twists, connector insertions/installations and splices are major factors contributing to the total signal efficiency of the installation.

**What frequency will you be using: VHF, Cellular, WIFI?**

As frequencies increase, there is considerably more signal loss in the cable. Cable characteristics vary by manufacturers and should be compared. (Conductor material, dielectric material, shield type, % coverage and additional foil shielding). A 60% braid coverage would have more signal loss than 95% coverage. A cable with a foil shield is more efficient and effective than one without. Choose the appropriate cable based upon minimum dB loss for your frequency and cable run length.

*Cable attenuation (loss) chart per 100'*

| | RG174[1] | RG58 | DA195 | RG-8X[2] | DA240 | RG-8U[3] | DA340 | DA440 |
|---|---|---|---|---|---|---|---|---|
| 150 MHz | 10.7 dB | 4.7 dB | 5.3 dB | 4.0 dB | 3.0 dB | 2.4 dB | 2.5 dB | 1.5 dB |
| 300 MHz | 16.0 dB | 7.0 dB | 7.5 dB | 5.4 dB | 4.3 dB | 3.5 dB | 3.4 dB | 2.2 dB |
| 800 MHz | 29.2 dB | 12.7 dB | 12.4 dB | 10.2 dB | 7.1 dB | 6.4 dB | 5.7 dB | 3.7 dB |
| 1900 MHz | 51.3 dB | 22.0 dB | 19.6 dB | 20.6 dB | 11.2 dB | 11.2 dB | 8.52 dB | 5.8 dB |
| 2400 MHz | 60.2 dB | 25.8 dB | 22.1 dB | 24.9 dB | 12.6 dB | 13.2 dB | 10.2 dB | 6.6 dB |
| Min. Bend Radius | 1" | 2" | 2" | 2.5" | 2" | 4" | 3" | 4" |

[1] *RG174 should only be used for cellular frequencies in lengths less than 10'. For cable runs 100' to 150' on cellular frequencies, use Digital Antenna's ULTRA low-loss DA440 cable. For cable runs greater than 150', contact your installer.*

[2] *Digital Antenna's RG-8X with 98% tinned-braid & foil-shield – other manufacturers' RG-8X has higher loss.*

[3] *Belden RG-8U cable specifications.*

**What connectors should I use?**

Frequency range will determine the connector series to be used. Mini-UHF, SMA, TNC and Type N, are all rated up to and beyond 2.5 GHz with type N being rated the highest at 11 GHz. UHF connectors such as PL-259 and PL-258 are rated to 300 MHz and cannot be used at cellular frequencies of 800 and 1900 MHz. Each connector or adapter inserts approximately a .5 dB loss. Never splice cable! Cables can only be extended using the appropriate connectors and cable. Refer to the cable loss chart.

# PowerMax™ COAXIAL CABLES



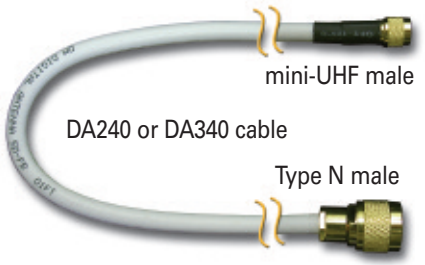
## 50 OHM COAXIAL CABLES

### USE WITH PowerMax™ CELLULAR BOOSTERS

Premium coax cables are pre-assembled with connectors and are available in 5′ – 100′ lengths. Bulk cable is available for runs in excess of 100′. Digital Antenna cables feature exclusive low-loss, tinned-braid, foil-shielded, UV-stable premium cable for maximum signal transmission.

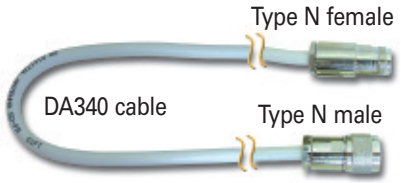
### PowerMax™ External Antenna Cables

| MODEL NUMBER | LENGTH |
|---|---|
| 240-10NM | 10′ |
| 240-15NM | 15′ |
| 240-30NM | 30′ |
| 340-50NM | 50′ |
| 340-75NM | 75′ |
| 340-100NM | 100′ |



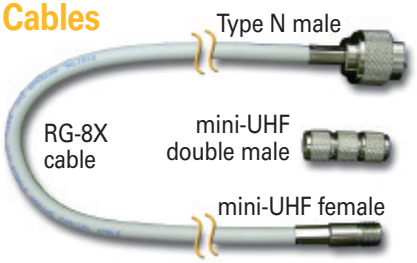

### PowerMax™ External Antenna Extension Cable

| MODEL NUMBER | LENGTH |
|---|---|
| 340-25NE | 25′ |



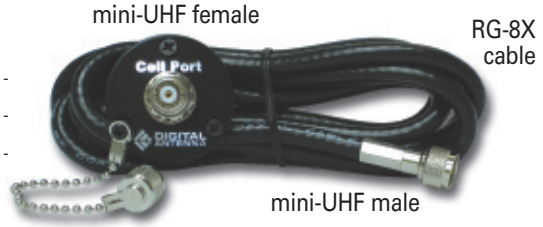

### RG-8X External Antenna Cables

| MODEL NUMBER | LENGTH |
|---|---|
| C998-10 | 10′ |
| C998-20 | 20′ |
| C998-30 | 30′ |
| C998-40 | 40′ |



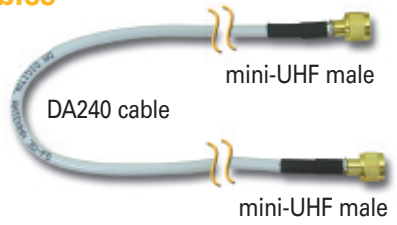

### Dash-Mount Cables

| MODEL NUMBER | LENGTH |
|---|---|
| C428-05 | 5′ |
| C428-12 | 12′ |
| INCLUDES BULKHEAD PLATE AND CAP | |



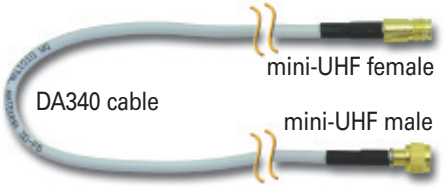

### Double mini-UHF male Cables

| MODEL NUMBER | LENGTH |
|---|---|
| 240-02MM | 2′ |
| 240-10MM | 10′ |




### PowerMax™ Inside Antenna Extension Cables

| MODEL NUMBER | LENGTH |
|---|---|
| 240-10FM | 10′ |
| 340-20FM | 20′ |
| 340-25FM | 25′ |



# PowerMax™ COAXIAL CABLES

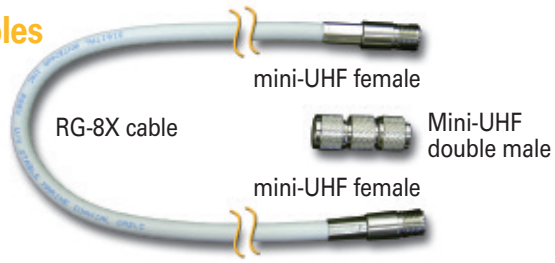
DIGITAL ANTENNA

## 50 OHM COAXIAL CABLES

USE WITH PowerMax™ CELLULAR BOOSTERS | AIS, VHF, XM ANTENNAS

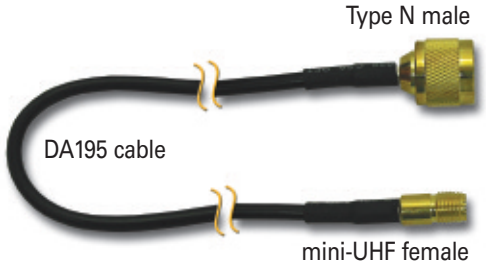
### 500 Series VHF | AIS Antenna Extension Cables

| MODEL NUMBER | LENGTH |
|---|---|
| C118-10 | 10′ |
| C118-20 | 20′ |



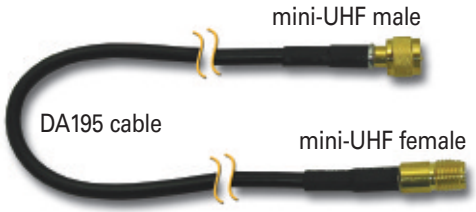

### XM Antenna Replacement Cable

| MODEL NUMBER | LENGTH |
|---|---|
| 195-50NF | 50′ |




### XM Antenna Extension Cable

| MODEL NUMBER | LENGTH |
|---|---|
| 195-25FM | 25′ |
| 195-50FM | 50′ |



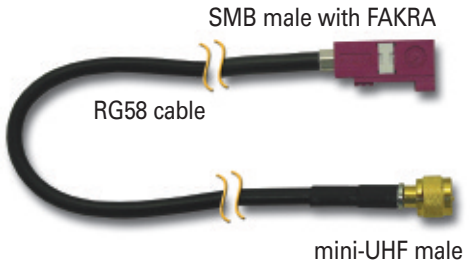

### Bulk Cable

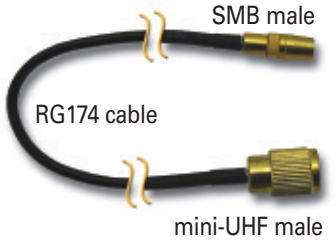
Premium PowerMax™ cable offers the lowest loss available. Sold by the foot for a completely custom installation. Up to a 150 foot length of DA440 and up to 100 foot length of DA340 can be used on cellular or PCS frequencies. RG-8X cable should not be used on PCS frequencies. Sold without connectors (see page 34)

**DA440 sold per foot**
**DA340 sold per foot**
**RG-8X sold per foot**

### XM Antenna Adapter Cable

| MODEL NUMBER | LENGTH |
|---|---|
| DA58F (XM WX) | 6″ |
| DA58S (XM WX) | 6″ |



# SATELLITE RADIO ANTENNA AND AMPLIFIED SPLITTER



## SIRIUS | XM

**BOATS | BUILDINGS | RVs**

Complete Kit 233-XM-50

Harness the power of satellite radio in your home, office or on your boat or RV. Digital Antenna's 233-XM-50 satellite radio antenna provides crystal clear reception of your favorite satellite radio channels* anywhere in the continental United States, Canada and up to 250 miles offshore. UV stable acrylic sealed dome is impervious to damage caused by bad weather and salt water. Sold complete with a stainless steel 1"-14 mount and stainless steel mounting ferrule, 50' cable with factory attached connectors and adapters.

### 233-XM-50 Satellite Radio Antenna Includes:

- *40dB nominal gain antenna (233-XM)*
- *50' cable with attached connectors (195-50NF)*
- *Stainless steel 1"-14 mount (DM194)*
- *Stainless steel 1"-14 female ferrule (F114)*
- *Mini-UHF male to SMA adapter (DA923)*
- *Mini-UHF male to SMB adapter (DA947)*

### Features:

- *Crystal clear reception*
- *Extended coverage*
- *Rugged construction*
- *Complete antenna system*

### Specifications 233-XM-50

| | |
|---|---|
| **Frequency** | 2320 – 2345.0 MHz (SIRIUS, XM, XM WX) |
| **Dimensions** | 3.5" OD x 2" H (8" H with mount) |
| **Warranty** | 1 year (limited) |

** Receiver required*

DA-2330

New 2-way amplified satellite radio splitter, model DA-2330, is optimized for use with all satellite radio systems and permits operation of two satellite radio receivers from a single antenna. The splitter is manufactured with a durable black powder-coated finish and high quality gold plated mini-UHF female connectors. The splitter's 10dB gain allows longer cables to be used to the receivers. Digital Antenna makes installation easy, offering factory assembled cables available in 10, 20, 25 and 50' lengths. If cable extensions greater than 200 feet are desired, DA340 or DA440 cable is recommended.

NEW

### Features:

- *10dB optimized gain*
- *Rugged powder coated finish*
- *Quality gold plated connectors*

### Specifications DA-2330

| | |
|---|---|
| **Frequency** | 2320 – 2345.0 MHz (SIRIUS, XM, XM WX) |
| **Dimensions** | 2" l x 4" w 1.25" h |
| **Warranty** | 1 year (limited) |

SATELLITE RADIO SATELLITE WEATHER

**Subscription to Sirius | XM and/or XM WX and receiver are required. Not for use with XM-ready devices. Visit www.sirius.com and www.xmradio.com*

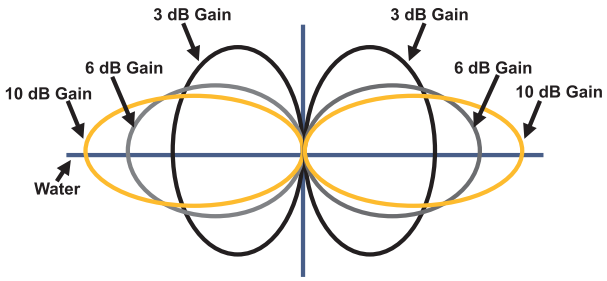
# GO FURTHER WITH AWARD-WINNING ANTENNAS

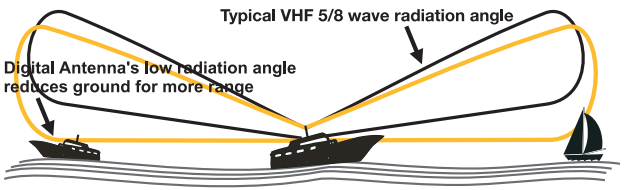
DIGITAL ANTENNA

## MARINE VHF, SSB, AM/FM, XM, WIFI & CELLULAR ANTENNAS

**YOUR ANTENNA IS YOUR LIFELINE ... CHOOSE WISELY!**

Voted 'Best Marine Antenna' by the National Marine Electronics Association (NMEA). Customers rely on Digital Antenna for quality design and ultimate performance. All antennas have soldered connections, are hand-assembled and tuned for maximum gain then finished with a high-gloss urethane coating, resulting in a product that consistently outperforms the competition even in the harshest of marine environments.




## *Which antenna is right for you?*

**What type and length of boat do you have (sailboat, powerboat, yacht, commercial vessel)?**

*Choose an antenna based upon available mounting location. A 4' or 8' antenna works well for many applications including a T-top. Larger antennas such as 16' models must be side-braced approximately 3' to 4' from base.*

**Is your antenna for communication, navigation or entertainment?**

*Although antennas look identical, they are very different inside. Each antenna is designed and manufactured for specific frequencies. VHF: 156.8 MHz, Cellular: 800/850 & 1900 MHz, SSB: 2-30MHz, AIS: 159 MHz. The correct antenna must be matched to the equipment's frequency.*

**What is 'gain' in an antenna?**

*Gain is measured in decibels (dB). The illustration to the left shows the radiation pattern of three antennas with different gain. As gain increases, the more directed the RF energy becomes, resulting in reaching a greater distance. Your antenna choice should be based upon your application, taking into consideration the rocking or keeling of your boat.*

**Why does an 18" cellular antenna have 9dB gain and an 8' VHF antenna have 6dB gain?**

*Due to the physics of the signal's wavelength, an equivalent 9dB gain antenna for VHF would have to be almost 16' in length. The wavelength for cellular frequencies is much shorter than VHF.*

**How does line-of-site affect communications?**

*While lower frequencies (SSB) allow for reliable long-range communication, frequencies above 100 MHz do not follow the curvature of the earth and are limited to line-of-site (the antennas must "see" each other). To achieve the longest range, the antenna should be placed as high as possible.*

**What makes an antenna reach a greater distance?**

*The advanced ground system internal to all Digital Antenna marine antennas allows 4.5dB through 10dB gain antennas to have a greater range in any sea conditions. The figure to the left shows the effect that a ground system has on a vertical antenna.*

*Note that by increasing the ground system efficiency, useful RF power is actually directed closer to the water surface where it is needed. Most well designed 5/8 wavelength 6dB antennas will transmit the same distance in the sky; however, the ground efficiency determines the actual communication range at sea level.*

# MARINE ANTENNA CUT-AWAY



## THE LEADER IN ANTENNA TECHNOLOGY

### QUALITY CRAFTSMANSHIP IN EVERY ANTENNA

### BRASS RADIATING ELEMENTS

*Precision cut & assembled elements for precise tuning and best performance.*

### BRASS GROUND SYSTEM

*Low radiation angle for greater distance.*

### FIBERGLASS ROD

*Features the perfect combination of flexibility and ruggedness.*

### HIGH-GLOSS POLYURETHANE FINISH

*Exclusive state-of-the-art finish seals out the corrosive marine environment to provide long-lasting performance.*

### POSITIONING FOAM

*Exclusive, completely sealed, perfectly centered internal elements to maintain design integrity.*

### SOLDERED CONNECTIONS

*Soldered tinned-braid-to-ground connection for maximum durability and clearest signal.*

### FERRITE CHOKE BEAD

*Eliminates interference with electronics & directs radiating power to antenna for maximum performance.*

### NEW STAINLESS STEEL FERRULES

*Surgical grade, mirror finish stainless steel provides unsurpassed durability and strength.*

BEST MARINE ANTENNA
NMEA PRODUCT AWARD RECIPIENT

### AWARD-WINNING AMPLIFIERS AND ANTENNAS

**HONORED BY**
**CES | NMEA | NMMA | SAIL MAGAZINE**

### UV STABLE RG-8X CABLE

*Exclusive UV stable, tinned-braid, foil-shielded, low-loss marine cable for maximum signal distance.*



### NEW 500 SERIES GOLD PLATED MINI-UHF CONNECTOR

*Innovated by Digital Antenna for easy installation and quality tested performance.*

*(PL259 or mini-UHF adapter included for VHF or Cell)*

# CELLULAR ANTENNAS

DIGITAL ANTENNA

## 9dB GAIN DUAL AND GLOBAL BAND

**BOATS | YACHTS | HOMES | OFFICES | M2M**

With professional marine-grade construction, Digital Antenna cellular antennas deliver high performance that will last for years. Available in 30", 4' and 8' lengths, each cellular antenna is designed for easy connection to your cell PowerMax™ Cell Booster. Each omni-directional cell antenna is 9dB gain. Choose the frequency, length and mounting option best suited for your application.

### All Cellular Antennas Feature:

- *Powerful brass radiators.*
- *Soldered connections.*
- *High-gloss urethane finish.*
- *Max input 250 watts.*

### North American Cell Frequencies: 850 | 1900 MHz
### Bandwidth VSWR <1.5:1 824-894 & 1850-1990 MHz

| SERIES | 30" WHITE | 30" BLACK | 4' WHITE | 4' BLACK | 8' WHITE | 8' BLACK |
|---|---|---|---|---|---|---|
| 500 | 561-CW | 561-CB | 563-CW | 563-CB | 567-CW | 567-CB |
| 800 | 854-CW | 854-CB | 883-CW | 883-CB | 897-CW | 897-CB |

### Global Cell Frequencies: 850 | 900 | 1800 | 1900 | 2100 MHz
### Bandwidth VSWR <1.5:1 824-960 & 1710-2170 MHz

| SERIES | 30" WHITE | 30" BLACK | 4' WHITE | 4' BLACK | 8' WHITE | 8' BLACK |
|---|---|---|---|---|---|---|
| 800 | 861-CW | 861-CB | 865-CW | 865-CB | 869-CW | 869-CB |

### Specifications

| | 500 GOLD SERIES | 800 SERIES |
|---|---|---|
| **Mount** | 1"-14 threaded base | 1"-14 threaded base |
| **Connector** | Mini-UHF female | Type N female |
| **Cable (500 series)** | 20' exclusive, RG-8X | Not included (pg 20-21) |
| **Includes** | Double mini-UHF male adapter | Stainless steel double female ferrule |

# MARINE VHF AND AIS MARINE ANTENNAS



## 3dB TO 6dB GAIN

**BOATS | SAILBOATS | YACHTS | COMMERCIAL VESSELS**

Digital Antenna's ultimate, award-winning VHF antennas combine ruggedness with a pristine finish for the finest antenna available. Even in the harshest conditions, our antennas will maintain their beautiful glossy finish for years. Built to withstand high speeds, our antennas are ideal for radar arches, T-tops, speedboats, sailboats, yachts and commercial vessels.

### VHF and AIS Antennas Feature *(except 200 series):*

- *Powerful brass radiators.*
- *Soldered connections.*
- *Power-directing ferrite choke bead.*
- *High-gloss urethane finish.*

### Specifications

| | 200 SERIES | 500 SERIES | 800 SERIES |
|---|---|---|---|
| **Mount** | L bracket | 1"-14 threaded base | 1"-14 threaded base |
| **Connector** | UHF female | Mini-UHF female | UHF female (SO239) |
| **Cable (500 Series)** | Not included | Exclusive RG-8X | Not included |
| **Includes** | Quick disconnect whip | Mini-UHF male to UHF male (PL259) adapter | Stainless steel double female ferrule |

| SERIES | 4' White VHF | 4' Black VHF | 8' White VHF | 8' Black VHF |
|---|---|---|---|---|
| 500 | 528-VW | 528-VB | 529-VW | 529-VB |
| 800 | 826-VW | 826-VB | 829-VW | 829-VB |
| Cable (500 series only) | 15' | 15' | 20' | 20' |
| VSWR <2:1 | 152.8-160.8 MHz | | 152.8-160.8 MHz | |
| Gain | 4.5 dB | | 6 dB | |

| SERIES | 3' White VHF | 4' White AIS | 4' Black AIS |
|---|---|---|---|
| 200 | 222-VW | N/A | N/A |
| 500 | N/A | 578-SW | 578-SB |
| 800 | N/A | 876-SW | 876-SB |
| Cable (500 series only) | N/A | 25' | 25' |
| VSWR <2:1 | 153.8 - 159.8 MHz | 156-162 MHz | |
| Gain | 3 dB | 4.5 dB | |

*All antennas are made in the USA, hand-assembled and tuned for maximum performance, quality and durability.*

# VHF MARINE ANTENNAS

DIGITAL ANTENNA

## EXTENDED LENGTHS

YACHTS | COMMERCIAL VESSELS

A favorite of marine professionals, our largest VHF antennas offer the power and durability to achieve maximum range and extended performance, even in the roughest seas. Solid construction makes Digital Antenna's 16' antennas the ideal choice for critical communication on board large yachts, commercial vessels and base stations. Must be used with a side support (page 33).

### All Antennas Feature:

- *Powerful brass radiators*
- *Soldered connections*
- *High-gloss urethane finish*
- *316 stainless steel ferrules*

*Bandwidth for complete antenna*
*VHF Bandwidth VSWR < 2.0:1 = 151.8 - 161.8 MHz (10 MHz)*

| SERIES | 16' WHITE | 16' BLACK | 8' WHITE* | 8' BLACK* |
|---|---|---|---|---|
| 500 (VHF) 10dB Gain | 532-VW | 532-VB | 533-VW | 533-VB |
| 700 (VHF) 10dB Gain | 736-VW | 736-VB | 533-VW | 533-VB |

**8' top section is available by itself but must be used with 16' VHF or 16' bottom section.*

| | VHF 500 Series | VHF 700 Series | TOP REPLACEMENT |
|---|---|---|---|
| **Mount** | 1"-14 threaded base | Pole, tube | 1"-14 threaded base |
| **Connector** | Mini-UHF female | Type N female | N/A |
| **Cable** | 20' RG-8X | Not Included | N/A |
| **Includes** | Mini-UHF male to UHF male (PL259) adapter | Stainless steel clamp set for pole mount | Use with 500 or 700 series bottom sections only |

VHF 500 SERIES

VHF 700 SERIES

VHF TOP REPLACEMENT

*All antennas are made in the USA, hand-assembled and tuned for maximum performance, quality and durability. All 16' antennas are UPS shippable.*

# EXTENDED LENGTH ANTENNAS AND EXTENDERS



## FEATURING FACTORY INSTALLED RUPP COLLARS

**BOATS | YACHTS | COMMERCIAL VESSELS**

For ease of installation, Digital Antenna now offers longer length antennas with a factory installed RUPP locking collar. The locking collar is installed at the factory assuring a perfect fit. The Rupp locking collar is available on all 16 foot 500 series antenna models and 1½" OD extenders.

### All RUPP Antennas and Extenders Feature:

- *Pre-installed RUPP collar for perfect fit*
- *Secure mounting option*
- *Available in a variety of models*

NEW

| MODEL NUMBER | Antenna Type | Antenna Grain | Antenna Length | Antenna Color | RUPP Collar Pre-installed |
|---|---|---|---|---|---|
| 532-VW-R | VHF | 10dB | 16' | White | Yes |
| 532-VB-R | VHF | 10dB | 16' | Black | Yes |
| 544-SSW-R | SSB | N/A | 16' | White | Yes |
| 544-SSB-R | SSB | N/A | 16' | Black | Yes |
| 549-EW-R | Tapered Extender | N/A | 8' | White | Yes |
| 549-EB-R | Tapered Extender | N/A | 8' | Black | Yes |
| 535-EW-R | Straight Extender | N/A | 8' | White | Yes |
| 535-EB-R | Straight Extender | N/A | 8' | Black | Yes |

*RUPP collar pre-installed.*
*Mounting arm available through dealer.*

*All of our antennas are made in the USA, assembled, tested and tuned by hand for maximum performance, quality and durability. UPS shippable.*

# SSB MARINE ANTENNAS

DIGITAL ANTENNA

## EXTENDED LENGTHS

YACHTS | COMMERCIAL VESSELS

Digital Antenna's high performance Single Side Band antennas offer exceptional communication over the entire HF frequency range (must use with a tuner). Heavy duty construction for use in the roughest seas, our SSB antennas are a popular choice for boaters when durability, performance and great looks are prerequisites. Digital Antenna's 16' SSB antenna electrically emulates a 24' SSB antenna and tunes to the entire HF band (must use with a tuner). Our 16' SSB antennas require a side support located 3' to 4' from the base of the antenna.

### All Antennas Feature:

- *Powerful brass radiators*
- *Soldered connections*
- *Centering foam insulator*
- *High gloss urethane finish*
- *316 stainless steel ferrule*

*Bandwidth for complete antenna*
*SSB Bandwidth VSWR <1.5:1 = .5 - 30 MHz with Tuner*

| SERIES | 16' WHITE | 16' BLACK | 8' WHITE* | 8' BLACK* |
|---|---|---|---|---|
| 500 (SSB) | 544-SSW | 544-SSB | 546-SSW | 546-SSB |

| | SSB 500 Series | TOP REPLACEMENT |
|---|---|---|
| **Mount** | 1"-14 threaded base | 1"-14 threaded base |
| **Connector** | Side termination stub | N/A |
| **Cable** | N/A | N/A |
| **Includes** | Stainless steel termination stub hardware | Use with 500 or 700 series bottom sections only |

**8' top section is available by itself but must be used with 16' SSB bottom sections.*

SSB
500 SERIES

SSB
TOP REPLACEMENT

*All antennas are made in the USA, hand-assembled and tuned for maximum performance, quality and durability. All 16' antennas are UPS shippable.*

# AM/FM AND COMBO MARINE ANTENNAS



## MULTI-PURPOSE VHF/CELL/PCS & AM/FM/CELL/PCS

**BOATS**

## AM/FM Stereo Antennas

When on board entertainment is your passion, Digital Antenna's AM/FM antennas deliver unbeatable reception and clarity. For the most eye-catching aesthetics, Digital Antenna's 4′ and 8′ AM/FM antennas are designed to match Digital Antenna's 4′ and 8′ VHF, AIS and cellular antennas.

## All AM/FM Antennas Feature:

- *Soldered connections*
- *High-gloss urethane finish*
- *Durable stainless steel ferrules*

| SERIES | 4′ WHITE AM/FM | 4′ BLACK AM/FM | 8′ WHITE AM/FM | 8′ BLACK AM/FM |
|---|---|---|---|---|
| 500 | 531-AW | 531-AB | 538-AW | 538-AB |

## 8' Combination Antennas

When space and mounting locations are limited, Digital Antenna's Trifecta™ combination antennas work overtime, providing you with multi-purpose performance to meet your communication, navigation or entertainment needs. Choose from a selection of high quality 8′ antennas with VHF, Cell and PCS or AM/FM, Cell and PCS combinations.

## All Combination Antennas Feature:

- *Two antennas in one rod*
- *Powerful brass radiators*
- *Soldered connections*
- *High-gloss urethane finish*

| 600 SERIES | CELL \| VHF 8′ WHITE | 8′ BLACK | CELL \| AM/FM 8′ WHITE | 8′ BLACK |
|---|---|---|---|---|
| MODEL NUMBER | 659-TW | 659-TB | 634-TW | 634-TB |
| VSWR <2:1 | 152.8-160.8 MHz (VHF) 824-894 & 1850-1990 MHz (CELL) | | 824-894 & 1850-1990 MHz (CELL) N/A (AM/FM) | |
| GAIN | 9 dB (CELL & PCS) 4.5 dB (VHF) | | 9 dB (CELL & PCS) UNITY (AM/FM) | |

| SERIES | 500 AM/FM | 600 COMBINATION |
|---|---|---|
| Mount | 1″-14 threaded base | 1″-14 threaded base |
| Connector | Un-attached Motorola type plug | Mini-UHF female CELL, VHF Un-attached Motorola type plug, AM/FM |
| Cable | 15′ RG-8X | Qty 2 - 20′ RG-8X |
| Includes | N/A | CELL, Double mini-UHF male adapter VHF, Mini-UHF male to UHF male adapter |

*All antennas are made in the USA, hand-assembled and tuned for maximum performance, quality and durability.*

# 2.4 GHZ WiFi ANTENNAS

DIGITAL ANTENNA

## 10dB GAIN WiFi ANTENNAS

**BOATS | SAILBOATS | HOMES | OFFICES | M2M**

Getting and staying connected on land or water has never been easier. Digital Antenna's 2.4GHz premium quality 10dB gain omni-directional antennas achieve optimal signal range on 802.11 b/g wireless LANs, Bluetooth and multipoint radio equipment, where high gain and wide coverage is desired. Designed to match other antennas on your boat, our WiFi antennas are available in lengths of 30", 4' and 8'.

Available in 800 Series only (not available in 500 Series). PowerMax™ low-loss antenna cables or DA440 bulk cable must be used to minimize signal loss (see page 20-21).

All antennas are made in the USA, hand-assembled and tuned by hand for maximum performance.

### All 2.4 GHz WiFi Antennas Feature:

- *Powerful brass radiators*
- *Soldered connections*
- *High-gloss urethane finish*
- *10dB gain*

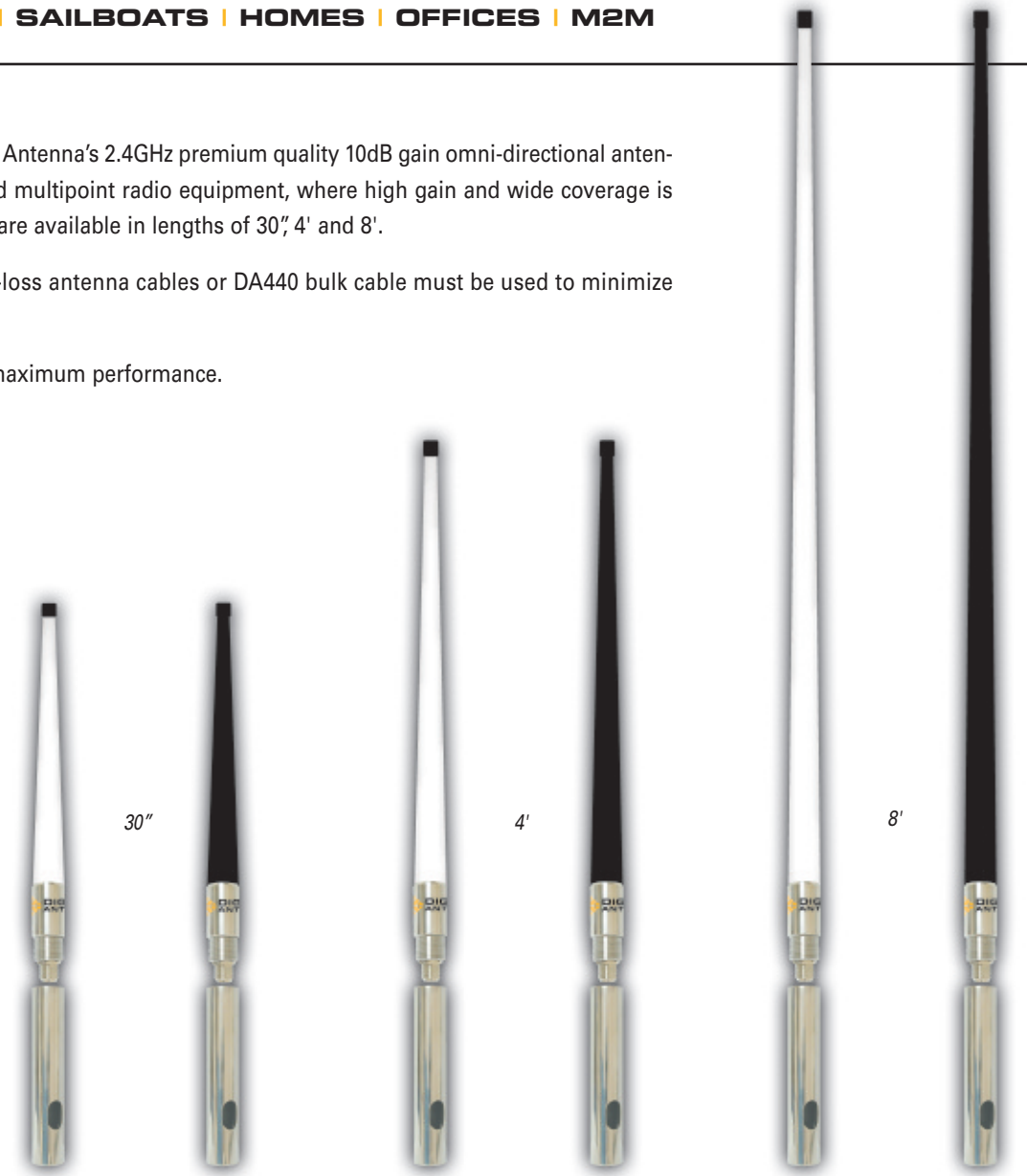
### 800 Series:

| WHITE | BLACK | LENGTH |
|---|---|---|
| 825-WLW | 825-WLB | 30" |
| 814-WLW | 814-WLB | 4' |
| 848-WLW | 848-WLB | 8' |

### Specifications 800 Series

| | |
|---|---|
| **Mount** | 1" - 14 threaded base |
| **Connector** | Type N female |
| **Bandwidth VSWR** | <1.5:1 = 2400-2500 MHz |
| **Cable** | Not included (pg 20-21) |
| **Includes** | Stainless steel double female ferrule |

*All antennas are made in the USA, hand-assembled and tuned for maximum performance, quality and durability.*



# ANTENNA EXTENDERS

## INCREASE ANTENNA HEIGHT

### BOATS

Constructed of high-quality reinforced fiberglass and finished to match Digital Antenna's award-winning antennas, antenna extenders are used to increase the height of an antenna to improve effective range or to place an antenna above on-board obstructions that may interfere with receive and transmit signals.

528-EW

528-EB

**Model # 528-EW | 528-EB**

**Straight Extender**

- *Dimension: 4′ - 1″ OD*
- *Heavy-duty high-gloss fiberglass*
- *Stainless steel ferrule*
- *1″ - 14 threaded top & base*

518-EW

518-EB

**Model # 518-EW | 518-EB**

**Straight Extender**

- *Dimension: 18″ - 1″ OD*
- *Heavy-duty high-gloss fiberglass*
- *Stainless steel ferrule*
- *1″ - 14 threaded top & base*

535-EW

535-EB

**Model # 535-EW | 535-EB**

**Straight Extender**

- *Dimension: 8′ - 1.5″ OD*
- *Heavy-duty high-gloss fiberglass*
- *Stainless steel ferrule*
- *1″ - 14 threaded top & base*
- *Use center brace #DM268*

564-EW

564-EB

**Model # 564-EW | 564-EB**

**Tapered Extender**

- *Dimension: 4′ - 1.5″ OD*
- *Heavy-duty high-gloss fiberglass*
- *Stainless steel ferrule*
- *1″ - 14 threaded top & base*
- *Use center brace #DM268*

549-EW

549-EB

**Model # 549-EW | 549-EB**

**Tapered Extender**

- *Dimension: 8′ - 1.5″ OD*
- *Heavy-duty high-gloss fiberglass*
- *Stainless steel ferrule*
- *1″ - 14 threaded top & base*
- *Use center brace #DM268*

# ANTENNA MOUNTS

DIGITAL ANTENNA

## ANTENNA MOUNTS AND ACCESSORIES

**ACCESSORIES ARE AVAILABLE AT OUR ONLINE STORE AT WWW.DIGITALANTENNA.COM**

Digital Antenna knows the importance of providing strength and durability for mounting antennas. Our premium quality stainless steel antenna mounts work to keep your high-performance antennas steady. Easily accepting antennas with 1"-14 threads, many styles are available to accommodate marine antennas from 18" to 24' in length. For antennas exceeding 8 feet in length, a side brace must be used.

**DM223**
- *Stainless Steel Ratchet Mount (1" - 14 threads)*

**DM194**
- *Stainless Steel Short Straight Mount (1" - 14 threads)*

**DM283**
- *Stainless Steel Swivel Mount (1" - 14 threads) (use with DM268)*

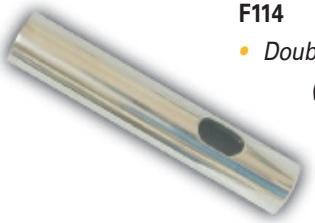
**DM312**
- *12" Stainless Steel Extender Top Male 1" - 14, Bottom Female 1" - 14*

**DM338**
- *Chrome-on-brass deck/bulkhead feed thru fitting (mini-connector will pass thru)*

**DM182**
- *Stainless Steel Straight Mount (1" - 14 threads)*

**DM178** 7/8" - 1" OD
**DM191** 1 1/4" - 1 1/2" OD
- *Stainless Steel Ratcheting Rail Mount (1" - 14 threads)* ***DM178***

**DM268**
- *White Molded Standoff Bracket for 1" or 1.5" OD (Use with DM283)*



**F114**
- *Double 1" - 14 Female Ferrule (Use with 288-PW or 295-PW 18" Cell Antenna)*

**DM277**
- *Mounts 3' VHF on a Standard 1" - 14 threaded base*

**DM925 (900 Series) | DM792 (700 Series)**
- *Stainless Steel Clamp Set for up to 2" OD (900) or 2.25" OD (700)*

**DM900**
- *Converts 800 series antenna to a 900 series wall or pole mount. Includes DM925.*

# CONNECTORS AND ADAPTERS

## 50 OHM

**TYPE N | MINI-UHF | UHF | TNC | FME**

Type N
male crimp

Type N
male clamp

| Connector Name | PN | Type |
|---|---|---|
| N Male (RG-8X) | DA853 | Crimp |
| N Male (DA195) | DA795 | Crimp |
| N Male (DA240) | DA229 | Clamp |
| N Male (DA340) | DA459 | Crimp |
| N Male (DA440) | DA473 | Clamp |
| N Male (440) | DA492 | Crimp |

Type N
female crimp

Type N
female clamp

| Connector Name | PN | Type |
|---|---|---|
| N Female (RG-8X) | DA522 | Crimp |
| N Female (DA240) | DA325 | Crimp |
| N Female (DA240) | DA362 | Clamp |
| N Female (DA340) | DA371 | Clamp |
| N Female (DA440) | DA390 | Clamp |

Mini-UHF
female crimp

Mini-UHF
female gold

| Connector Name | PN | Type |
|---|---|---|
| Mini-UHF Female (RG-8X) | DA817 | Crimp |
| Mini-UHF Female (DA195) | DA468 | Crimp |
| Mini-UHF Female (RG-8X) GOLD | DA817G | Crimp |
| Mini-UHF Female (DA240) | DA826 | Crimp |
| Mini-UHF Female (DA340) | DA857 | Crimp |

Mini-UHF
male crimp

| Connector Name | PN | Type |
|---|---|---|
| Mini-UHF Male (RG174) | DA274 | Crimp |
| Mini-UHF Male (RG-8X) | DA482 | Crimp |
| Mini-UHF Male (DA195) | DA357 | Crimp |
| Mini-UHF Male (DA240) | DA247 | Crimp |
| Mini-UHF Male (DA340) | DA434 | Crimp |
| Mini-UHF Male (DA440) | DA442 | Crimp |

Motorola plug

| Connector Name | PN | Type |
|---|---|---|
| Motorola (AM/FM) type plug (RG-8X) | DA140 | Solder |

## Adapters

| | |
|---|---|
| Mini-UHF male to 'N' female | DA525 |
| Mini-UHF male to TNC female | DA572 |
| Mini-UHF male to UHF male (GOLD) | DA645G |
| Mini-UHF male to UHF male (Nickel) | DA645 |
| Mini-UHF male to male (GOLD) | DA624G |
| Mini-UHF male to male (Nickel) | DA624 |
| Mini-UHF male to FME Female | DA206 |
| Mini-UHF male to FME male | DA639 |
| Mini-UHF male to SMA male | DA947 |
| Mini-UHF male to SMB male | DA923 |
| Mini-UHF female to TNC male | DA628 |
| Mini-UHF female to FME Female | DA298 |
| Mini-UHF female to mini-UHF Female | DA527 |

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